

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L1    | 3235  | (compar\$5 with columns) with memory same (compar\$5 blocks)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:26 |
| L2    | 385   | (compar\$5 with columns) with memory same (compar\$5 with blocks)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:28 |
| L3    | 55045 | ("714"/).ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:27 |
| L4    | 42    | 2 and 3  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:27 |
| L5    | 168   | (compar\$5 with columns) with memory same (compar\$5 with bank)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:28 |
| L6    | 108   | (compar\$5 with columns with address) with memory same (compar\$5 with bank with address)                                    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:29 |
| L7    | 230   | (compar\$5 with columns with address) same (compar\$5 with bank with address)  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:29 |
| L8    | 100   | (compar\$5 with columns with address) same (compar\$5 with bank with address) with memory                                    | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:29 |
| L9    | 14    | (compar\$5 with columns with address) same (compar\$5 with bank with address) same ((faulty or error or failed) with memory) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/09/27 17:29 |

## EAST Search History

|     |      |                 |   |    |    |                  |
|-----|------|-----------------|---|----|----|------------------|
| L10 | 1945 | (714/6).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:44 |
| L11 | 1945 | (714/6).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:44 |
| L12 | 981  | (714/5).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:44 |
| L13 | 666  | (714/7).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:45 |
| L14 | 444  | (714/8).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:45 |
| S1  | 2    | "6,115,828".pn. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/27 17:25 |
| S2  | 13   | "689422"        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:13 |
| S3  | 1724 | (714/6).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:14 |
| S4  | 887  | (714/5).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:14 |
| S5  | 615  | (714/7).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:14 |

## EAST Search History

|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S6  | 2907  | S3 or S4 or S5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:14 |
| S7  | 33783 | compar\$3 with (fault\$3 or fail\$3)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:15 |
| S8  | 1353  | compar\$3 with address with<br>(fault\$3 or fail\$3)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:15 |
| S9  | 34    | S8 and S6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 13:15 |
| S10 | 408   | (714/8).ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:14 |
| S11 | 9     | S8 and S10   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:14 |
| S12 | 38    | S9 or S11  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:14 |
| S13 | 633   | column with row with address with<br>(fault\$3 or fail\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:18 |
| S14 | 3188  | S6 or S10  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:18 |
| S15 | 31    | S13 and S14  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:19 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S16 | 17     | S15 not S12   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:59 |
| S17 | 113015 | semiconductor adj memory  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:22 |
| S18 | 400    | S14 and S17   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 14:22 |
| S19 | 10     | (US-20040153843-\$ or<br>US-20050160310-\$).did. or<br>(US-6115828-\$ or US-6408401-\$ or<br>US-6041422-\$ or US-6397349-\$ or<br>US-5938774-\$ or US-6785837-\$ or<br>US-6505305-\$ or US-6571353-\$).<br>did. | US-PGPUB;<br>USPAT                                      | OR | ON | 2006/04/07 15:27 |
| S20 | 6      | S19 and semiconductor   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:27 |
| S21 | 8      | S19 and column and row  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:27 |
| S22 | 5      | S20 and S21   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:59 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S23 | 51   | ("3222653"   "3311887"   "3331058"<br>  "3422402"   "3434116"  <br>"3633175"   "3735368"   "3753244"<br>  "4015126"   "4250570"  <br>"4422161"   "4426688"   "4450559"<br>  "4523313"   "4527251"  <br>"4532611"   "4556975"   "4584681"<br>  "4639897"   "4656609"  <br>"4656610"   "4744060"   "4745582"<br>  "4783781"   "4796233"  <br>"4817056"   "4849938"   "4849939"<br>  "4862416"   "5195057"  <br>"5208782"   "5243570"   "5249156"<br>  "5297088"   "5315551"  <br>"5329473"   "5381370"   "5416740"<br>  "5822779").PN. OR ("6041422").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/07 15:53 |
| S24 | 55   | S15 or S12  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:59 |
| S25 | 438  | S24 or S18  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 15:59 |
| S26 | 51   | S25 and ("and" adj gate)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 16:09 |
| S27 | 18   | S23 and ("and" adj gate)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 16:01 |
| S28 | 66   | S26 or S27  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 16:00 |
| S29 | 6813 | (compar\$5 with row) and<br>(compar\$5 with column)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 16:10 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S30 | 32   | S29 and S25   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/07 16:10 |
| S31 | 10   | (US-20050160310-\$ or<br>US-20040153843-\$).did. or<br>(US-6408401-\$ or US-6115828-\$ or<br>US-6785837-\$ or US-5938774-\$ or<br>US-6505305-\$ or US-6397349-\$ or<br>US-6041422-\$ or US-6571353-\$).<br>did. | US-PGPUB;<br>USPAT                                      | OR | ON | 2006/04/10 10:15 |
| S32 | 1    | S31 and latch   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:24 |
| S33 | 1724 | (714/6).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S34 | 887  | (714/5).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S35 | 615  | (714/7).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S36 | 2907 | S33 or S34 or S35   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S37 | 408  | (714/8).ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S38 | 3188 | S36 or S37  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |

## EAST Search History

|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S39 | 6813   | (compar\$5 with row) and<br>(compar\$5 with column)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S40 | 44     | S38 and S39   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:26 |
| S41 | 113068 | semiconductor adj memory  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:27 |
| S42 | 400    | S38 and S41   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:27 |
| S43 | 22     | S42 and S40   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 10:27 |
| S44 | 29     | ("4459685"   "4601019"   "5179536"<br>  "5381370"   "5422850"  <br>"5452251"   "5513144"   "5528539"<br>  "5548225"   "5594693"  <br>"5604702"   "5648934"   "5684740"<br>  "5729551"   "5751647"  <br>"5914907"   "6038682").PN. OR<br>("6199177").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/10 11:48 |
| S45 | 24     | ("4051354"   "4380066"   "5299202"<br>  "5416740"   "5430678"  <br>"5812467"   "5889710"   "5958065"<br>  "5969906").PN. OR ("6115828").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/04/10 11:45 |
| S46 | 53     | S44 or S45  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 11:48 |
| S47 | 41     | S46 and compar\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 12:32 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S48 | 1232 | (address near4 (fault\$3 or fail\$3)) with compar\$5              | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:06 |
| S49 | 333  | S41 and S48   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:05 |
| S50 | 7    | S49 and S38   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:05 |
| S51 | 2514 | (address near4 (fault\$3 or fail\$3 or defective)) with compar\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:06 |
| S52 | 400  | S38 and S41   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:07 |
| S53 | 31   | S51 and S52   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S54 | 2    | "4,389,715".pn.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 13:27 |
| S55 | 869  | block same (row with compar\$5)<br>same (column with compar\$5)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S56 | 1724 | (714/6).ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S57 | 887  | (714/5).ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/04/10 16:24 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S58 | 615    | (714/7).ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S59 | 2907   | S56 or S57 or S58  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S60 | 408    | (714/8).ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S61 | 3188   | S59 or S60   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S62 | 113068 | semiconductor adj memory   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S63 | 400    | S61 and S62  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S64 | 10     | S55 and S63  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/10 16:24 |
| S65 | 12     | (US-20040153843-\$ or<br>US-20050160310-\$).did. or<br>(US-6115828-\$ or US-6199177-\$ or<br>US-6505305-\$ or US-6408401-\$ or<br>US-6397349-\$ or US-6785837-\$ or<br>US-5938774-\$ or US-6041422-\$ or<br>US-6571353-\$ or US-4389715-\$).<br>did. | US-PGPUB;<br>USPAT                                      | OR | ON | 2006/04/12 09:58 |
| S66 | 2      | S65 and latch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 09:47 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S67 | 9   | (compar\$5 with (cell or block)) and S65 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:13 |
| S68 | 6   | (compar\$5 with array) and S65           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/04/12 10:13 |
| S69 | 190 | (714/18).ccls.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/26 16:05 |
| S70 | 90  | (714/19).ccls.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/26 16:05 |
| S71 | 312 | (714/20).ccls.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/26 16:05 |
| S72 | 546 | S69 or S70 or S71                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/26 16:05 |
| S73 | 5   | S72 and row same column same compar\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/08/26 16:05 |